

Title (en)

POWER AND INFORMATION SIGNAL TRANSFER USING MICRO-TRANSFORMERS

Title (de)

LEISTUNGS- UND INFORMATIONSSIGNALTRANSFER UNTER VERWENDUNG VON MIKROTRANSFORMATOREN

Title (fr)

TRANSFERT D'ENERGIE ET DE SIGNAUX D'INFORMATION AU MOYEN DE MICRO-TRANSFORMATEURS

Publication

EP 1787382 A4 20091202 (EN)

Application

EP 05789057 A 20050819

Priority

- US 2005029617 W 20050819
- US 92250404 A 20040820

Abstract (en)

[origin: US2006039169A1] A power converter provides power across an isolation barrier, such as through the use of coils. A coil driver has transistors connected in a positive feedback configuration and is coupled to a supply voltage in a controlled manner by measuring the output power and opening or closing a switch as needed between the power supply and the coil driver. An output circuit, such as a FET driver, can be used with or without isolation to provide power and a logic signal.

IPC 8 full level

H02M 3/335 (2006.01); **H02M 3/337** (2006.01)

CPC (source: CN EP KR US)

H02M 3/335 (2013.01 - KR); **H02M 3/33523** (2013.01 - CN EP US); **H02M 3/3374** (2013.01 - CN EP US); **H02M 3/338** (2013.01 - EP US); **H01F 17/0013** (2013.01 - CN EP US); **H01F 2019/085** (2013.01 - CN EP US)

Citation (search report)

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Designated contracting state (EPC)

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DOCDB simple family (publication)

US 2006039169 A1 20060223; **US 7489526 B2 20090210**; CN 101189786 A 20080528; CN 101189786 B 20111012; CN 102324851 A 20120118; CN 102324851 B 20150225; CN 104734515 A 20150624; CN 104734515 B 20181221; EP 1787382 A2 20070523; EP 1787382 A4 20091202; EP 1787382 B1 20170118; EP 3157152 A2 20170419; EP 3157152 A3 20170510; EP 3157152 B1 20191023; JP 2008511272 A 20080410; JP 4659037 B2 20110330; KR 100961293 B1 20100607; KR 100975484 B1 20100811; KR 20070055546 A 20070530; KR 20090121411 A 20091125; US 2007052399 A1 20070308; US 2007052514 A1 20070308; US 2008094046 A1 20080424; US 7548440 B2 20090616; US 7613016 B2 20091103; US 7706154 B2 20100427; WO 2006023767 A2 20060302; WO 2006023767 A3 20080131

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US 92250404 A 20040820; CN 200580032955 A 20050819; CN 201110235730 A 20050819; CN 201510046516 A 20050819; EP 05789057 A 20050819; EP 16200733 A 20050819; JP 2007528054 A 20050819; KR 20077006363 A 20050819; KR 20097023827 A 20050819; US 2005029617 W 20050819; US 59336006 A 20061106; US 59338506 A 20061106; US 59432805 A 20050819